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Serial # 09/244037	NPL ____ where - IEEE, ACM, internet, other
Priority Date _____	

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5,600,672

STIC Searcher KAJ Phone 2-4235

Date picked up 3/8/07 Date completed _____

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OTHER _____

Day : Thursday

PALM INTRANET

Date: 3/8/2007
Time: 09:43:09

Continuity Information for 09/686467

Parent Data
09686467
is a division of 09244037
Which is a reissue of 08240521
Which is a continuation in part of 07857627

Child Data
09672946 **is a division of** 09244037

Appln Info | Contents | Petition Info | Atty/Agent Info | **Continuity/Reexam** | Foreign Data

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PCT / [ ] / [ ] Search **or PG PUBS #** [ ] Search
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Day : Thursday

Date: 3/8/2007
Time: 09:43:36

PALM INTRANET

Application Number Information

Application Number: **09/244037**
Assignments
Filing or 371(c) Date: **02/04/1999** eDan
Effective Date: **02/04/1999**
Application Received: **02/04/1999**
Patent Number:
Issue Date: **00/00/0000**
Date of Abandonment: **00/00/0000**
Attorney Docket Number: **169/MU-1296/**
Status: **90 /ALLOWED -- NOTICE OF ALLOWANCE NOT YET MAILED**
Confirmation Number: **3295**
Title of Invention: **COMMUNICATION SYSTEM**

Examiner Number: **76772 / HA, DAC**
Group Art Unit: **2611**
Class/Subclass: **375/219.000**
Lost Case: **NO**
Interference Number:
Unmatched Petition: **NO**
L&R Code: Secrecy Code:**1**
Third Level Review: **NO**
Oral Hearing: **NO**

IFW IMAGE

Secrecy Order: **NO**

Status Date: **08/15/2005**

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
09244037BA	28C1	09/12/2006	No Charge to Location	No Charge to Name	NGUYEN,HUY	RND/00/A 41

Appln Info | Contents | Petition Info | Atty/Agent Info | Continuity/Reexam | Foreign Data

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Day : Thursday

PALM INTRANET

Date: 3/8/2007
Time: 09:43:46

Continuity Information for 09/244037

Parent Data

09244037
is a reissue of 08240521
Which is a continuation in part of 07857627

Child Data

09662695 **is a division of** 09244037
09666012 **is a division of** 09244037
09667438 **is a division of** 09244037
09667525 **is a division of** 09244037
09668068 **is a division of** 09244037
09669916 **is a division of** 09244037
09672946 **is a division of** 09244037
09672947 **is a continuation in part of** 07857627
09677421 **is a division of** 09244037
09678014 **is a division of** 09244037
09680176 **is a division of** 09244037
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09686466 **is a division of** 09244037
09686467 **is a division of** 09244037
09688028 **is a division of** 09244037
10133347 **is a reissue of** 08240521
10133364 **is a division of** 09662695
10635468 **is a continuation of** 09686463
10693526 **is a division of** 09680176
10782411 **is a division of** 09686465
10860666 **is a reissue of** 08240521

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Day : Thursday

PALM INTRANET

Date: 3/8/2007
Time: 09:43:58

Application Number Information

Application Number: **08/240521**
Assignments
Filing or 371(c) Date: **05/10/1994** eDan
Effective Date: **05/10/1994**
Application Received: **05/10/1994**
Patent Number: **5600672**
Issue Date: **02/04/1997**
Date of Abandonment: **00/00/0000**
Attorney Docket Number: **169MU1296P95**
Status: **150 /PATENTED CASE**
Confirmation Number: **8164**
Title of Invention: **COMMUNICATION SYSTEM**

Examiner Number: **71232 / PHAN, HAI**
Group Art Unit: **2614**
Class/Subclass: **375/219.000**
Lost Case: **NO**
Interference Number:
Unmatched Petition: **NO**
L&R Code: Secrecy Code:**1**
Third Level Review: **NO**
Oral Hearing: **NO**

IFW IMAGE

Secrecy Order: **NO**
Status Date: **01/27/1997**

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location

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Query/Command : prt max legalall

1 / 1 PLUSPAT - ©QUESTEL-ORBIT - image

PN - US5600672 A 19970204 [US5600672]

TI - (A) Communication system

PA - (A) MATSUSHITA ELECTRIC IND CO LTD (JP)

PA0 - Matsushita Electric Industrial Company, Ltd., Osaka [JP]

IN - (A) OSHIMA MITSUAKI (JP); SAKASHITA SEIJI (JP)

AP - US24052194 19940510 [1994US-0240521]

FD - C.I.P. of US857627 19920325 [1992US-0857627]

PR - US24052194 19940510 [1994US-0240521]
JP6279891 19910327 [1991JP-0062798]
JP9581391 19910425 [1991JP-0095813]
JP15565091 19910529 [1991JP-0155650]
JP18223691 19910723 [1991JP-0182236]
JP6073992 19920317 [1992JP-0060739]
JP13298493 19930510 [1993JP-0132984]
JP26161293 19930924 [1993JP-0261612]
JP34997293 19931227 [1993JP-0349972]
JP7966894 19940324 [1994JP-0079668]
US85762792 19920325 [1992US-0857627]

IC - (A) H04B-001/38 H04L-005/16

ICAA - G11B-020/00 [2006-01 A - I R M EP]; H04L-001/00 [2006-01 A - I R M EP]; H04L-027/02 [2006-01 A - I R M EP]; H04L-027/04 [2006-01 A - I R M EP]; H04L-027/18 [2006-01 A - I R M EP]; H04L-027/26 [2006-01 A - I R M EP]; H04L-027/34 [2006-01 A - I R M EP]; H04L-027/38 [2006-01 A - I R M EP]; H04N-005/44 [2006-01 A - I R M EP]; H04N-007/24 [2006-01 A - I R M EP]; H04N-007/26 [2006-01 A - I R M EP]; H04N-007/54 [2006-01 A - I R M EP] G11B-023/28 [2006-01 A - N R M EP]; G11B-027/034 [2006-01 A - N R M EP]; G11B-027/10 [2006-01 A - N R M EP]; H04N-007/015 [2006-01 A - N R M EP]

ICCA - G11B-020/00 [2006 C - I R M EP]; H04L-001/00 [2006 C - I R M EP]; H04L-027/02 [2006 C - I R M EP]; H04L-027/18 [2006 C - I R M EP]; H04L-027/26 [2006 C - I R M EP]; H04L-027/34 [2006 C - I R M EP]; H04L-027/38 [2006 C - I R M EP]; H04N-005/44 [2006 C - I R M EP]; H04N-007/24 [2006 C - I R M EP]; H04N-007/26 [2006 C - I R M EP]; H04N-007/52 [2006 C - I R M EP] G11B-023/28 [2006 C - N R M EP]; G11B-027/031 [2006 C - N R M EP]; G11B-027/10 [2006 C - N R M EP]; H04N-007/015 [2006 C - N R M EP]

EC - G11B-020/00P
H04L-001/00B
H04L-027/02
H04L-027/04
H04L-027/18M
H04L-027/26M1
H04L-027/26M1E
H04L-027/34
H04L-027/34M
H04L-027/38N2

H04N-005/44N
H04N-007/24A
H04N-007/24C14
H04N-007/26E
H04N-007/54

ICO - S11B-023/28
S11B-027/034
S11B-027/10A1
T04L-001/00B7C1

PCL - ORIGINAL (O) : 375219000; CROSS-REFERENCE (X) : 375270000 375301000 375321000

DT - Basic

CT - US5164963
Shanmugam, "Digital and Analog Communication Systems" 1979, p. 272.

STG - (A) United States patent

AB - At the transmitter side, carrier waves are modulated according to an input signal for producing relevant signal points in a signal space diagram. The input signal is divided into, two, first and second, data streams. The signal points are divided into signal point groups to which data of the first data stream are assigned. Also, data of the second data stream are assigned to the signal points of each signal point group. A difference in the transmission error rate between first and second data streams is developed by shifting the signal points to other positions in the space diagram expressed at least in the polar coordinate system. At the receiver side, the first and/or second data streams can be reconstructed from a received signal. In TV broadcast service, a TV signal is divided by a transmitter into low and high frequency band components which are designated as first and second data streams respectively. Upon receiving the TV signal, a receiver can reproduce only the low frequency band component or both the low and high frequency band components, depending on its capability. Furthermore, a communication system based on an OFDM system is utilized for data transmission of a plurality of subchannels, wherein the subchannels are differentiated by changing the length of a guard time slot or a carrier wave interval of a symbol transmission time slot, or changing the transmission electric power of the carrier.

1/1 LGST - ©EPO

PN - US5600672 A 19970204 [US5600672]

AP - US24052194 19940510 [1994US-0240521]

ACT - 19961010 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. 1006, KAD;
EFFECTIVE DATE: 19960910

19961010 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: OSHIMA, MITSUAKI; EFFECTIVE DATE: 19960910

19961010 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: SAKASHITA, SEIJI; EFFECTIVE DATE: 19960910

19990420 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 19990204

20001114 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20000915

20001128 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20001012

20001226 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20001005

20010102 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20001012

20010130 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20001012

20010213 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20000929

20010313 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20000925

20010403 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20000925

20010501 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20000929

20010522 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20001005

20010605 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20001005

20020611 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20020429

20020702 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20020429

20021008 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20000921

20040113 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20031027

20040203 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20031022

20040413 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20031024

20040504 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20020209

20040928 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20040223

20041109 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20040220

20041214 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20040707

20041214 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20040701

20050301 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20040604

20050308 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20040805

20050510 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20030807

20050628 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20050119

UP - 2005-27

1/1 CRXX - ©CLAIMS/RRX

PN - 5,600,672 A 19970204 [US5600672]

PA - Matsushita Electric Industrial Co Ltd JP

ACT - 19990204 REISSUE REQUESTED
ISSUE DATE OF O.G.: 19990420
REISSUE REQUEST NUMBER: 09/244037
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000915 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20001114
REISSUE REQUEST NUMBER: 09/662695
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000919 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20001114
REISSUE REQUEST NUMBER: 09/666012
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000921 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20001114
REISSUE REQUEST NUMBER: 09/667438
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000921 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20010102
REISSUE REQUEST NUMBER: 09/667525
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000921 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20021008
REISSUE REQUEST NUMBER: 09/667438
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000925 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20010313
REISSUE REQUEST NUMBER: 09/668068
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000925 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20010403
REISSUE REQUEST NUMBER: 09/669916
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000929 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20010213
REISSUE REQUEST NUMBER: 09/672948
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000929 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20010501
REISSUE REQUEST NUMBER: 09/672947
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20001005 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20001128
REISSUE REQUEST NUMBER: 09/678014
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20001005 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20001226
REISSUE REQUEST NUMBER: 09/677420
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20001005 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20001226
REISSUE REQUEST NUMBER: 09/677421
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20001005 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20010522
REISSUE REQUEST NUMBER: 09/680176
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

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ISSUE DATE OF O.G.: 20010605
REISSUE REQUEST NUMBER: 09/680177
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

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ISSUE DATE OF O.G.: 20001128
REISSUE REQUEST NUMBER: 09/686464
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20001012 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20001128
REISSUE REQUEST NUMBER: 09/688028
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

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ISSUE DATE OF O.G.: 20010102
REISSUE REQUEST NUMBER: 09/686463
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20001012 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20010102
REISSUE REQUEST NUMBER: 09/686466
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20001012 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20010102
REISSUE REQUEST NUMBER: 09/686467
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20001012 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20010130
REISSUE REQUEST NUMBER: 09/686465
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20020209 REISSUE REQUESTED
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REISSUE REQUEST NUMBER: 10/773811
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20020429 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20020611
REISSUE REQUEST NUMBER: 10/133364
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20020429 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20020702
REISSUE REQUEST NUMBER: 10/133347
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20030807 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20050510
REISSUE REQUEST NUMBER: 10/635468
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20031022 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20040203
REISSUE REQUEST NUMBER: 10/690297
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20031024 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20040413
REISSUE REQUEST NUMBER: 10/692469
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20031027 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20040113
REISSUE REQUEST NUMBER: 10/693526
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20040220 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20041109
REISSUE REQUEST NUMBER: 10/782411
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2631

Reissue Patent Number:

20040223 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20040928
REISSUE REQUEST NUMBER: 10/783588
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2631

Reissue Patent Number:

20040604 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20050301
REISSUE REQUEST NUMBER: 10/860666
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20040701 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20041214
REISSUE REQUEST NUMBER: 2614
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS:

Reissue Patent Number:

20040707 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20041214
REISSUE REQUEST NUMBER: 10/885572
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20040805 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20050308
REISSUE REQUEST NUMBER: 10/911680
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20050119 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20050628

REISSUE REQUEST NUMBER: 11/038006
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

Search statement 3

LEVEL 1 - 1 OF 1 PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5600672

February 4, 1997

Communication system

REISSUE: September 21, 2000 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 09/667,438 (O.G. October 8, 2002)
April 29, 2002 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 10/133,347 (O.G. July 2, 2002)
April 29, 2002 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 10/133,364 (O.G. June 11, 2002)
October 5, 2000 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 09/680,177 (O.G. June 5, 2001)
October 5, 2000 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 09/680,176 (O.G. May 22, 2001)
September 29, 2000 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 09/672,947 (O.G. May 1, 2001)
September 25, 2000 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 09/669,916 (O.G. April 3, 2001)
September 25, 2000 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 09/668,068 (O.G. March 13, 2001)
September 29, 2000 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 09/672,948 (O.G. February 13, 2001)
October 12, 2000 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 09/686,465 (O.G. January 30, 2001)
October 12, 2000 - Reissue Application Filed Ex. Gp.: 2614; Re. S.N. 09/686,467 (O.G. January 2, 2001)
October 12, 2000 - Reissue Application Filed Ex. Gp.: 2614; Re. S.N. 09/686,466 (O.G. January 2, 2001)
October 12, 2000 - Reissue Application Filed Ex. Gp.: 2614; Re. S.N. 09/686,463 (O.G. January 2, 2001)
September 21, 2000 - Reissue Application Filed Ex. Gp.: 2614; Re. S.N. 09/667,525 (O.G. January 2, 2001)
October 5, 2000 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 09/677,420

5,600,672 OR 5600672

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5,600,672 OR 5600672

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5,600,672 OR 5600672

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Patent Search 5600672 3/8/2007

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